

Ethernet Traffic Generator Analyzer

Feature Highlights

- ◆ 4-Port Multigigabit Ethernet capable traffic generator and analyzer (100M/1G/2.5G/5G/10G)
- ◆ Automotive Ethernet support (from 100Mb to 10Gb BASE-T1)
- ◆ Line rate traffic generation
- ◆ Bit Error Rate Testing (BERT)
- ◆ Throughput performance testing
- ◆ Latency measurement with 1 nanosecond precision
- ◆ Troubleshooting with Layer 1 (PCS) viewer & Layer 2 capture with advanced triggers and filters
- ◆ Advanced PCAP Replay feature
- ◆ Energy Efficient Ethernet (EEE) support (IEEE 802.3az)
- ◆ Optional Inline Protocol Analyzer and Network Impairment Emulator modes
- ◆ Intuitive browser-based HTML5 GUI with full RESTful API
- ◆ User-customizable Dashboard for statistics and graphical analysis
- ◆ +/- 500ppm Tx offset control
- ◆ Fine bandwidth controls (rate, burst and IPG settings)
- ◆ IEEE 802.3br MAC preemption for TSN applications

Overview

Aukua Systems Ethernet Traffic Generator is an easy to use purpose-built Ethernet test system for R&D, Test and Support engineers building Ethernet based IT, storage networking and communications systems.

The Aukua Ethernet Traffic Generator can be used for Bit Error Rate Testing (BERT), throughput validation, latency measurement or monitoring as well as negative testing (impairment jamming) applications. Data rates from 10Mbps to 10Gbps Ethernet, including 2.5Gbps and 5Gbps Ethernet rates (IEEE 802.3bz) and Automotive Ethernet (IEEE 802.3bp/bw/bv/ch) are supported. The hardware-based architecture uniquely ensures accurate and repeatable results you can count on for stressing, validating, troubleshooting and debugging your systems and devices under test.

The Aukua MGA8410 architecture delivers true line-rate performance regardless of configuration as well as unmatched nanosecond timestamp and latency measurement accuracy. And the optional Inline Protocol Analyzer mode adds even more flexibility and value by providing full visibility into Layer 1 thru Layer 7 bidirectional protocol communications and event-timing analysis while sitting transparently inline between devices under test.

Other important features include real-time statistics, alarms and graphical analysis, external reference clock inputs, the ability to upload and 'replay' packets from a capture file (pcap or pcapng), and a full RESTful API allowing complete automation capability, further enhancing productivity and integration with other development and testing tools.

Our hyperfocus on building a truly intuitive user-experience ensures that the Traffic Generator is useful every time; even for the occasional user. First time users are productively testing within the first 10 minutes, even without training or assistance! This is in part thanks to a single, simple user interface that is served up from the Generator system without any software installations required. No complex initial chassis configuration or setup is required.

The only Ethernet test solution to support both inline as well as end-point testing modes for all Ethernet rates up to 10G!



**Contact Aukua Systems to request the full
Product Brief!**

Click to Request Full Product Brief

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Product description, features and specifications are subject to change without notice.
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ETG84PB-10025AW

